

# ภาคผนวก ค

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ใบรับรองผลการตรวจวิเคราะห์

# ภาคผนวก ค-1

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คุณภาพอากาศในบรรยากาศ



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223106**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285407-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดหนองแฟบ (GPS 47P 0729819, 1403299)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

	2223106-1 Mar 28, 2022	2223106-2 Mar 29, 2022	2223106-3 Mar 30, 2022	2223106-4 Mar 31, 2022	2223106-5 Apr 01, 2022	2223106-6 Apr 02, 2022	2223106-7 Apr 03, 2022
Time							
09:00 AM - 10:00 AM	0.004	0.002	0.002	0.003	0.002	0.002	0.002
10:00 AM - 11:00 AM	0.003	0.002	0.001	0.002	0.002	0.002	0.002
11:00 AM - 12:00 PM	0.001	0.002	<0.001	0.002	0.003	0.006	0.003
12:00 PM - 01:00 PM	0.002	0.001	<0.001	0.002	0.003	0.007	0.005
01:00 PM - 02:00 PM	0.002	0.003	0.001	0.002	0.004	0.006	0.005
02:00 PM - 03:00 PM	0.020	0.006	0.003	0.004	0.006	0.007	0.005
03:00 PM - 04:00 PM	0.004	0.008	0.005	0.003	0.008	0.006	0.005
04:00 PM - 05:00 PM	0.006	0.006	0.003	0.006	0.020	0.007	0.005
05:00 PM - 06:00 PM	0.006	0.007	0.006	0.002	0.014	0.006	0.006
06:00 PM - 07:00 PM	0.010	0.010	0.008	0.012	0.010	0.014	0.010
07:00 PM - 08:00 PM	0.010	0.010	0.009	0.012	0.008	0.009	0.013
08:00 PM - 09:00 PM	0.011	0.007	0.007	0.012	0.011	0.006	0.012
09:00 PM - 10:00 PM	0.012	0.008	0.010	0.011	0.008	0.007	0.008
10:00 PM - 11:00 PM	0.009	0.004	0.005	0.011	0.006	0.004	0.012
11:00 PM - 12:00 AM	0.010	0.004	0.007	0.008	0.009	0.005	0.013
12:00 AM - 01:00 AM	0.008	0.003	0.009	0.007	0.012	0.004	0.011
01:00 AM - 02:00 AM	0.008	0.003	0.008	0.006	0.010	0.004	0.010
02:00 AM - 03:00 AM	0.010	0.004	0.006	0.009	0.008	0.005	0.010
03:00 AM - 04:00 AM	0.012	0.006	0.006	0.010	0.008	0.006	0.009
04:00 AM - 05:00 AM	0.012	0.007	0.006	0.008	0.008	0.007	0.011
05:00 AM - 06:00 AM	0.010	0.009	0.008	0.009	0.007	0.010	0.011
06:00 AM - 07:00 AM	0.007	0.006	0.007	0.007	0.008	0.009	0.011
07:00 AM - 08:00 AM	0.004	0.003	0.007	0.004	0.004	0.007	0.006
08:00 AM - 09:00 AM	0.002	0.002	0.005	0.002	0.003	0.004	0.004
Average	0.008	0.005	0.005	0.006	0.007	0.006	0.008
1hr - Maximum	0.020	0.010	0.010	0.012	0.020	0.014	0.013
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223106**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285410-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดมาบชลด (GPS 47P 0730826, 1407301)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

	2223106-8 Mar 28, 2022	2223106-9 Mar 29, 2022	2223106-10 Mar 30, 2022	2223106-11 Mar 31, 2022	2223106-12 Apr 01, 2022	2223106-13 Apr 02, 2022	2223106-14 Apr 03, 2022
Time							
10:00 AM - 11:00 AM	0.056	0.004	0.005	0.004	0.005	0.002	0.003
11:00 AM - 12:00 PM	0.035	0.008	0.004	0.004	0.004	0.003	0.003
12:00 PM - 01:00 PM	0.017	0.007	0.002	0.005	0.003	0.003	0.003
01:00 PM - 02:00 PM	0.014	0.003	0.002	0.004	0.002	0.002	0.003
02:00 PM - 03:00 PM	0.006	0.004	0.004	0.004	0.003	0.003	0.003
03:00 PM - 04:00 PM	0.005	0.007	0.008	0.004	0.003	0.003	0.003
04:00 PM - 05:00 PM	0.007	0.011	0.008	0.010	0.003	0.004	0.004
05:00 PM - 06:00 PM	0.004	0.012	0.008	0.006	0.003	0.004	0.004
06:00 PM - 07:00 PM	0.004	0.014	0.010	0.010	0.004	0.004	0.005
07:00 PM - 08:00 PM	0.009	0.010	0.013	0.006	0.007	0.004	0.006
08:00 PM - 09:00 PM	0.007	0.003	0.012	0.010	0.003	0.004	0.005
09:00 PM - 10:00 PM	0.013	0.004	0.012	0.013	0.003	0.003	0.006
10:00 PM - 11:00 PM	0.005	0.004	0.011	0.010	0.002	0.003	0.005
11:00 PM - 12:00 AM	0.002	0.006	0.008	0.007	0.002	0.003	0.005
12:00 AM - 01:00 AM	0.006	0.005	0.007	0.004	0.002	0.003	0.004
01:00 AM - 02:00 AM	0.008	0.005	0.006	0.008	0.002	0.003	0.004
02:00 AM - 03:00 AM	0.011	0.004	0.007	0.006	0.002	0.002	0.004
03:00 AM - 04:00 AM	0.004	0.005	0.006	0.006	0.002	0.002	0.011
04:00 AM - 05:00 AM	0.002	0.007	0.005	0.008	0.003	0.002	0.008
05:00 AM - 06:00 AM	0.003	0.006	0.006	0.008	0.002	0.003	0.007
06:00 AM - 07:00 AM	0.006	0.006	0.008	0.010	0.004	0.004	0.009
07:00 AM - 08:00 AM	0.007	0.005	0.008	0.011	0.004	0.005	0.011
08:00 AM - 09:00 AM	0.006	0.005	0.008	0.011	0.003	0.005	0.008
09:00 AM - 10:00 AM	0.006	0.005	0.004	0.006	0.003	0.004	0.006
Average	0.010	0.006	0.007	0.007	0.003	0.003	0.005
1hr - Maximum	0.056	0.014	0.013	0.013	0.007	0.005	0.011
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223106**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285411-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดซากลูกหญ้า (GPS 47P 0730049, 1409677)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

Time	2223106-15 Mar 28, 2022	2223106-16 Mar 29, 2022	2223106-17 Mar 30, 2022	2223106-18 Mar 31, 2022	2223106-19 Apr 01, 2022	2223106-20 Apr 02, 2022	2223106-21 Apr 03, 2022
11:00 AM - 12:00 PM	0.002	0.016	0.013	0.010	0.007	0.004	0.004
12:00 PM - 01:00 PM	0.016	0.017	0.014	0.007	0.005	0.004	0.005
01:00 PM - 02:00 PM	0.021	0.014	0.011	0.011	0.004	0.003	0.006
02:00 PM - 03:00 PM	0.018	0.006	0.007	0.012	0.004	0.003	0.007
03:00 PM - 04:00 PM	0.009	0.007	0.014	0.015	0.004	0.004	0.018
04:00 PM - 05:00 PM	0.009	0.011	0.015	0.010	0.004	0.004	0.005
05:00 PM - 06:00 PM	0.010	0.014	0.013	0.012	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.012	0.018	0.013	0.016	0.006	0.004	0.005
07:00 PM - 08:00 PM	0.015	0.027	0.014	0.016	0.005	0.004	0.005
08:00 PM - 09:00 PM	0.017	0.027	0.022	0.009	0.010	0.004	0.005
09:00 PM - 10:00 PM	0.015	0.024	0.022	0.013	0.004	0.004	0.005
10:00 PM - 11:00 PM	0.014	0.021	0.015	0.018	0.003	0.003	0.007
11:00 PM - 12:00 AM	0.007	0.016	0.014	0.014	0.003	0.004	0.005
12:00 AM - 01:00 AM	0.007	0.010	0.012	0.012	0.004	0.004	0.005
01:00 AM - 02:00 AM	0.006	0.014	0.010	0.007	0.004	0.003	0.004
02:00 AM - 03:00 AM	0.006	0.012	0.014	0.009	0.004	0.003	0.004
03:00 AM - 04:00 AM	0.010	0.010	0.012	0.008	0.003	0.003	0.004
04:00 AM - 05:00 AM	0.005	0.008	0.012	0.008	0.004	0.002	0.004
05:00 AM - 06:00 AM	0.004	0.010	0.007	0.015	0.004	0.003	0.004
06:00 AM - 07:00 AM	0.005	0.010	0.008	0.015	0.003	0.003	0.004
07:00 AM - 08:00 AM	0.001	0.010	0.014	0.012	0.005	0.004	0.006
08:00 AM - 09:00 AM	0.008	0.015	0.014	0.015	0.006	0.006	0.010
09:00 AM - 10:00 AM	0.011	0.019	0.018	0.017	0.004	0.006	0.010
10:00 AM - 11:00 AM	0.016	0.010	0.008	0.011	0.003	0.006	0.007
Average	0.010	0.014	0.013	0.012	0.004	0.004	0.006
1hr - Maximum	0.021	0.027	0.022	0.018	0.010	0.006	0.018
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223106**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285412-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดโสกถนาราม (GPS 47P 0735044, 1405851)  
**Parameter** Nitrogen dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

	2223106-22 Mar 28, 2022	2223106-23 Mar 29, 2022	2223106-24 Mar 30, 2022	2223106-25 Mar 31, 2022	2223106-26 Apr 01, 2022	2223106-27 Apr 02, 2022	2223106-28 Apr 03, 2022
Time							
12:00 PM - 01:00 PM	0.008	0.006	0.005	0.006	0.006	0.003	0.008
01:00 PM - 02:00 PM	0.009	0.004	0.004	0.003	0.004	0.003	0.009
02:00 PM - 03:00 PM	0.009	0.005	0.004	0.008	0.008	0.003	0.009
03:00 PM - 04:00 PM	0.007	0.006	0.004	0.007	0.011	0.003	0.010
04:00 PM - 05:00 PM	0.008	0.010	0.008	0.007	0.010	0.003	0.008
05:00 PM - 06:00 PM	0.008	0.010	0.008	0.015	0.014	0.007	0.013
06:00 PM - 07:00 PM	0.009	0.011	0.009	0.017	0.016	0.015	0.012
07:00 PM - 08:00 PM	0.012	0.012	0.015	0.016	0.011	0.015	0.013
08:00 PM - 09:00 PM	0.009	0.012	0.013	0.014	0.013	0.006	0.007
09:00 PM - 10:00 PM	0.009	0.009	0.010	0.014	0.013	0.011	0.013
10:00 PM - 11:00 PM	0.008	0.006	0.009	0.012	0.010	0.010	0.011
11:00 PM - 12:00 AM	0.007	0.005	0.008	0.010	0.010	0.006	0.009
12:00 AM - 01:00 AM	0.007	0.005	0.011	0.009	0.011	0.006	0.009
01:00 AM - 02:00 AM	0.007	0.003	0.013	0.008	0.010	0.006	0.012
02:00 AM - 03:00 AM	0.007	0.005	0.010	0.008	0.010	0.006	0.012
03:00 AM - 04:00 AM	0.007	0.006	0.007	0.009	0.009	0.006	0.010
04:00 AM - 05:00 AM	0.008	0.006	0.006	0.010	0.009	0.009	0.005
05:00 AM - 06:00 AM	0.008	0.009	0.010	0.010	0.010	0.012	0.005
06:00 AM - 07:00 AM	0.009	0.010	0.014	0.010	0.012	0.013	0.005
07:00 AM - 08:00 AM	0.008	0.006	0.010	0.008	0.008	0.011	0.003
08:00 AM - 09:00 AM	0.006	0.004	0.011	0.005	0.006	0.008	0.006
09:00 AM - 10:00 AM	0.004	0.004	0.006	0.006	0.006	0.010	0.005
10:00 AM - 11:00 AM	0.006	0.003	0.007	0.005	0.004	0.008	0.004
11:00 AM - 12:00 PM	0.006	0.003	0.008	0.005	0.004	0.009	0.004
Average	0.008	0.007	0.009	0.009	0.009	0.008	0.008
1hr - Maximum	0.012	0.012	0.015	0.017	0.016	0.015	0.013
Standard 1hr - Average	0.170	0.170	0.170	0.170	0.170	0.170	0.170

Standard : Notification of the National Environment Board No. 33, 2009 (B.E. 2552).

Reference Method : US EPA Method Part 50 App. F (Chemiluminescence)

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223112**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285413-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดหนองแฟบ (GPS 47P 0729819, 1403299)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

Time	2223112-1 Mar 28, 2022	2223112-2 Mar 29, 2022	2223112-3 Mar 30, 2022	2223112-4 Mar 31, 2022	2223112-5 Apr 01, 2022	2223112-6 Apr 02, 2022	2223112-7 Apr 03, 2022
09:00 AM - 10:00 AM	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
10:00 AM - 11:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	<0.001	0.001	0.001	0.001	0.001	0.001	0.001
12:00 PM - 01:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
01:00 PM - 02:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
02:00 PM - 03:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
03:00 PM - 04:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
04:00 PM - 05:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
05:00 PM - 06:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
06:00 PM - 07:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	0.001	0.001	<0.001	0.001	0.001	0.001	0.001
08:00 PM - 09:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
09:00 PM - 10:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
10:00 PM - 11:00 PM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
11:00 PM - 12:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
12:00 AM - 01:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
02:00 AM - 03:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
03:00 AM - 04:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
07:00 AM - 08:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Average	0.001	0.001	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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Sararat Mongkonjirawut

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223112**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285414-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดมาบชลด (GPS 47P 0730826, 1407301)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

	2223112-8 Mar 28, 2022	2223112-9 Mar 29, 2022	2223112-10 Mar 30, 2022	2223112-11 Mar 31, 2022	2223112-12 Apr 01, 2022	2223112-13 Apr 02, 2022	2223112-14 Apr 03, 2022
Time							
10:00 AM - 11:00 AM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
11:00 AM - 12:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
12:00 PM - 01:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
01:00 PM - 02:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
02:00 PM - 03:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
03:00 PM - 04:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
04:00 PM - 05:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
05:00 PM - 06:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
06:00 PM - 07:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
07:00 PM - 08:00 PM	0.002	0.002	0.001	0.001	0.001	0.001	0.001
08:00 PM - 09:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
09:00 PM - 10:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
10:00 PM - 11:00 PM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
11:00 PM - 12:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
12:00 AM - 01:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
01:00 AM - 02:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
02:00 AM - 03:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
03:00 AM - 04:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
04:00 AM - 05:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
05:00 AM - 06:00 AM	0.002	0.001	0.001	0.001	0.001	0.001	0.001
06:00 AM - 07:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
07:00 AM - 08:00 AM	0.002	0.001	0.002	0.002	0.001	0.001	0.001
08:00 AM - 09:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
09:00 AM - 10:00 AM	0.002	0.001	0.002	0.001	0.001	0.001	0.001
Average	0.002	0.001	0.001	0.001	0.001	0.001	0.001
1hr - Maximum	0.002	0.002	0.002	0.002	0.001	0.001	0.001
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).  
Reference Method : US EPA Method Part 53 and 58

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Approved by

Sararat Mongkonjirawut  
Scientist (4)





## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223112**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285415-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดซากลูกหญ้า (GPS 47P 0730049, 1409677)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

Time	2223112-15 Mar 28, 2022	2223112-16 Mar 29, 2022	2223112-17 Mar 30, 2022	2223112-18 Mar 31, 2022	2223112-19 Apr 01, 2022	2223112-20 Apr 02, 2022	2223112-21 Apr 03, 2022
11:00 AM - 12:00 PM	0.004	0.005	0.005	0.005	0.005	0.005	0.005
12:00 PM - 01:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
01:00 PM - 02:00 PM	0.005	0.006	0.005	0.005	0.005	0.005	0.005
02:00 PM - 03:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
03:00 PM - 04:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
04:00 PM - 05:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
05:00 PM - 06:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
06:00 PM - 07:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
07:00 PM - 08:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
08:00 PM - 09:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
09:00 PM - 10:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
10:00 PM - 11:00 PM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
11:00 PM - 12:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
12:00 AM - 01:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
01:00 AM - 02:00 AM	0.006	0.005	0.005	0.005	0.005	0.005	0.005
02:00 AM - 03:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
03:00 AM - 04:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
04:00 AM - 05:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
05:00 AM - 06:00 AM	0.006	0.005	0.005	0.005	0.005	0.005	0.005
06:00 AM - 07:00 AM	0.002	0.005	0.005	0.005	0.005	0.005	0.005
07:00 AM - 08:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
08:00 AM - 09:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
09:00 AM - 10:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
10:00 AM - 11:00 AM	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Average	0.005	0.005	0.005	0.005	0.005	0.005	0.005
1hr - Maximum	0.006	0.006	0.005	0.005	0.005	0.005	0.005
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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Approved by

Sararat Mongkonjirawut  
Scientist (4)



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223112**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2285416-1

Page 1 of 1

**Sample Description** Air Quality  
**Location** วัดโสมกวนาราม (GPS 47P 0735044, 1405851)  
**Parameter** Sulfur Dioxide (ppm)  
**Measurement Date** Mar 28, 2022 - Apr 04, 2022  
**Measurement by** Satcha Phetsawaeng

Time	2223112-22 Mar 28, 2022	2223112-23 Mar 29, 2022	2223112-24 Mar 30, 2022	2223112-25 Mar 31, 2022	2223112-26 Apr 01, 2022	2223112-27 Apr 02, 2022	2223112-28 Apr 03, 2022
12:00 PM - 01:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
01:00 PM - 02:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
02:00 PM - 03:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
03:00 PM - 04:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
04:00 PM - 05:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
05:00 PM - 06:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
06:00 PM - 07:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
07:00 PM - 08:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
08:00 PM - 09:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
09:00 PM - 10:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
10:00 PM - 11:00 PM	0.003	0.004	0.004	0.004	0.004	0.004	0.004
11:00 PM - 12:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
12:00 AM - 01:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
01:00 AM - 02:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
02:00 AM - 03:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
03:00 AM - 04:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
04:00 AM - 05:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
05:00 AM - 06:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
06:00 AM - 07:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
07:00 AM - 08:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
08:00 AM - 09:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
09:00 AM - 10:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
10:00 AM - 11:00 AM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
11:00 AM - 12:00 PM	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Average	0.003	0.004	0.004	0.004	0.004	0.004	0.004
1hr - Maximum	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Standard 1hr - Average	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Standard 24 hrs - Average	0.12	0.12	0.12	0.12	0.12	0.12	0.12

Standard : Notification of the National Environment Board No.10, 1995 (B.E.2538), No. 21, 2001 (B.E.2544) and No.24, 2004 (B.E.2547).

Reference Method : US EPA Method Part 53 and 58

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Approved by

Sararat Mongkonjirawut

Scientist (4)

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## Analysis / Test Report

Client : Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150  
P/O :  
Project Name : Monitoring  
Project Location : CUP 3

Lot ID : 2223113  
Date Received : Apr 05, 2022  
Date Reported : Apr 07, 2022  
Report Number : 2238212-1

Page 1 of 2

Sample Number : 2223113-1 to 7  
Parameter : Wind Speed / Wind Direction  
Location : วัดหนองแฟบ (GPS 47P 0729819, 1403299)  
Sampling Date : Mar 28 - Apr 04, 2022  
Sampling by : Satcha Phetsawaeng

Time	Mar 28 - Mar 29, 2022			Mar 29 - Mar 30, 2022			Mar 30 - Mar 31, 2022			Mar 31 - Apr 01, 2022			Apr 01 - Apr 02, 2022			Apr 02 - Apr 03, 2022			Apr 03 - Apr 04, 2022		
	WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)		WS (m/s)	WD (deg)	
09:00 AM - 10:00 AM	1.5	227.0	SW	1.2	109.0	ESE	1.3	287.0	WNW	0.3	316.0	NW	0.3	50.0	NE	2.5	95.0	E	2.7	359.0	N
10:00 AM - 11:00 AM	1.0	144.0	SE	1.1	245.0	WSW	1.0	228.0	SW	0.9	243.0	WSW	0.3	75.0	ENE	1.2	1.0	N	0.9	21.0	NNE
11:00 AM - 12:00 PM	0.7	199.0	SSW	1.4	217.0	SW	1.6	4.0	N	2.5	316.0	NW	0.2	-	-	1.4	81.0	E	0.7	295.0	WNW
12:00 PM - 01:00 PM	0.6	241.0	WSW	1.5	228.0	SW	0.2	-	-	0.1	-	-	0.5	260.0	W	2.1	138.0	SE	1.4	274.0	W
01:00 PM - 02:00 PM	1.6	246.0	WSW	0.6	85.0	E	0.5	227.0	SW	0.6	351.0	N	1.6	87.0	E	1.9	63.0	ENE	1.5	93.0	E
02:00 PM - 03:00 PM	2.4	266.0	W	1.6	93.0	E	0.4	267.0	W	1.2	140.0	SE	0.7	225.0	SW	1.6	87.0	E	0.7	108.0	ESE
03:00 PM - 04:00 PM	0.3	260.0	W	1.4	173.0	S	0.8	320.0	NW	0.3	37.0	NE	1.0	133.0	SE	1.6	330.0	NNW	0.2	-	-
04:00 PM - 05:00 PM	1.2	295.0	WNW	1.6	211.0	SSW	0.5	313.0	NW	0.4	356.0	N	1.2	96.0	E	1.4	339.0	NNW	0.9	121.0	ESE
05:00 PM - 06:00 PM	1.3	225.0	SW	0.8	261.0	W	1.4	312.0	NW	1.3	195.0	SSW	1.2	111.0	ESE	2.7	29.0	NNE	2.3	233.0	SW
06:00 PM - 07:00 PM	0.2	-	-	1.5	206.0	SSW	1.5	238.0	WSW	1.4	164.0	SSE	1.4	37.0	NE	0.6	304.0	NW	1.8	39.0	NE
07:00 PM - 08:00 PM	0.6	165.0	SSE	0.4	279.0	W	1.4	239.0	WSW	1.5	312.0	NW	2.7	121.0	ESE	0.8	336.0	NNW	1.5	40.0	NE
08:00 PM - 09:00 PM	2.7	149.0	SSE	1.4	241.0	WSW	1.2	240.0	WSW	1.6	47.0	NE	0.9	53.0	NE	1.7	11.0	N	1.1	50.0	NE
09:00 PM - 10:00 PM	0.5	148.0	SSE	0.7	196.0	SSW	0.5	289.0	WNW	1.4	34.0	NE	0.5	76.0	ENE	1.0	304.0	NW	0.4	151.0	SSE
10:00 PM - 11:00 PM	0.6	265.0	W	0.8	181.0	S	1.5	289.0	WNW	0.5	33.0	NNE	1.6	13.0	NNE	1.8	30.0	NNE	0.9	121.0	ESE
11:00 PM - 12:00 AM	1.0	281.0	W	1.1	259.0	W	1.6	288.0	WNW	1.6	32.0	NNE	0.2	-	-	1.6	65.0	ENE	0.3	153.0	SSE
12:00 AM - 01:00 AM	1.6	246.0	WSW	1.4	281.0	W	1.4	288.0	WNW	2.1	33.0	NNE	1.3	187.0	S	1.5	168.0	SSE	0.6	8.0	N
01:00 AM - 02:00 AM	0.8	171.0	S	1.5	209.0	SSW	1.3	288.0	WNW	1.5	34.0	NE	0.5	46.0	NE	2.1	33.0	NNE	0.7	6.0	N
02:00 AM - 03:00 AM	1.4	90.0	E	1.4	116.0	ESE	1.4	288.0	WNW	1.6	34.0	NE	0.3	341.0	NNW	1.2	328.0	NNW	0.9	59.0	ENE
03:00 AM - 04:00 AM	1.5	89.0	E	1.6	211.0	SSW	1.2	289.0	WNW	1.4	51.0	NE	1.6	93.0	E	1.7	22.0	NNE	0.9	142.0	SE
04:00 AM - 05:00 AM	0.8	243.0	WSW	1.5	329.0	NNW	1.6	287.0	WNW	1.5	54.0	NE	0.6	35.0	NE	1.1	354.0	N	1.3	65.0	ENE
05:00 AM - 06:00 AM	1.6	196.0	SSW	1.4	305.0	NW	0.5	288.0	WNW	0.6	53.0	NE	1.9	136.0	SE	1.5	64.0	ENE	0.3	315.0	NW
06:00 AM - 07:00 AM	1.4	183.0	S	1.5	352.0	N	0.4	323.0	NW	0.4	300.0	WNW	1.0	323.0	NW	1.0	206.0	SSW	1.3	248.0	WSW
07:00 AM - 08:00 AM	2.7	243.0	WSW	0.4	276.0	W	0.7	207.0	SSW	1.3	300.0	WNW	2.8	62.0	ENE	1.1	29.0	NNE	1.0	23.0	NNE
08:00 AM - 09:00 AM	0.9	181.0	S	0.4	231.0	SW	0.3	177.0	S	0.5	122.0	ESE	2.3	86.0	E	0.4	50.0	NE	1.2	25.0	NNE

Reference Method : Cup Anemometer & Anodized Aluminium Vane Method

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Approved by

Sarayuth Jittrantont  
Assistant General Manager



## Analysis / Test Report

Client : Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150  
P/O :  
Project Name : Monitoring  
Project Location : CUP 3

Lot ID : 2223113  
Date Received : Apr 05, 2022  
Date Reported : Apr 07, 2022  
Report Number : 2238212-1

Page 2 of 2

### Wind Rose



Date : Mar 28-29, 2022



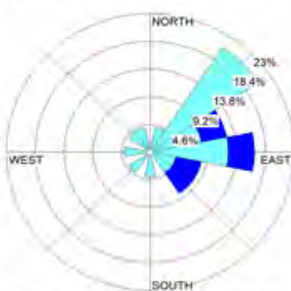
Date : Mar 29-30, 2022



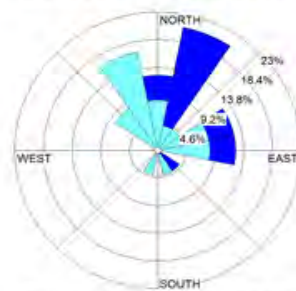
Date : Mar 30-31, 2022



Date : Mar 31-Apr 01, 2022



Date : Apr 01-02, 2022



Date : Apr 02-03, 2022



Date : Apr 03-04, 2022



Date : Mar 28-Apr 04, 2022

	WS(m/s)	%
	≥ 10.0	0.00
	8.0-10.0	0.00
	5.5-8.0	0.00
	3.3-5.5	0.00
	1.7-3.3	11.91
	0.3-1.7	84.52
	Calms	3.57

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Approved by

Sarayuth Jitranont  
Assistant General Manager



## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223114**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2238218-1

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดหนองแฟบ (GPS 47P 0729819, 1403299)
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2223114-1	Mar 28 - Mar 29, 2022	0.066	0.021	758	32
2223114-2	Mar 29 - Mar 30, 2022	0.072	0.024	758	32
2223114-3	Mar 30 - Mar 31, 2022	0.063	0.025	758	32
2223114-4	Mar 31 - Apr 01, 2022	0.080	0.036	758	33
2223114-5	Apr 01 - Apr 02, 2022	0.055	0.019	758	33
2223114-6	Apr 02 - Apr 03, 2022	0.021	0.009	758	32
2223114-7	Apr 03 - Apr 04, 2022	0.038	0.016	758	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Satcha Phetsawaeng

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223114**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2238218-2

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดมาบขลุ่ย (GPS 47P 0730826, 1407301)
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2223114-8	Mar 28 - Mar 29, 2022	0.031	0.018	758	32
2223114-9	Mar 29 - Mar 30, 2022	0.042	0.021	758	32
2223114-10	Mar 30 - Mar 31, 2022	0.044	0.032	758	32
2223114-11	Mar 31 - Apr 01, 2022	0.055	0.036	758	33
2223114-12	Apr 01 - Apr 02, 2022	0.031	0.016	758	33
2223114-13	Apr 02 - Apr 03, 2022	0.020	0.008	758	32
2223114-14	Apr 03 - Apr 04, 2022	0.028	0.015	758	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Satcha Phetsawaeng

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223114**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2238218-3

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดเขาหลวง (GPS 47P 0730049, 1409677)
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2223114-15	Mar 28 - Mar 29, 2022	0.093	0.039	758	32
2223114-16	Mar 29 - Mar 30, 2022	0.063	0.032	758	32
2223114-17	Mar 30 - Mar 31, 2022	0.049	0.028	758	32
2223114-18	Mar 31 - Apr 01, 2022	0.039	0.031	758	33
2223114-19	Apr 01 - Apr 02, 2022	0.031	0.014	758	33
2223114-20	Apr 02 - Apr 03, 2022	0.017	0.011	758	32
2223114-21	Apr 03 - Apr 04, 2022	0.036	0.019	758	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Satcha Phetsawaeng

Approved by

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223114**

Date Received : Apr 05, 2022

Date Reported : Apr 11, 2022

Report Number: 2238218-4

Page 1 of 1

<b>Sample Description</b>	Air Quality
<b>Location</b>	วัดโศภณนาราม (GPS 47P 0735044, 1405851)
<b>Date Analysis Commenced</b>	Apr 06, 2022
<b>Condition of Sample</b>	Drawn into one glass filter paper (8x10 inch) placed in plastic bag and one quartz filter paper (8x10 inch) placed in plastic bag

Sample Number	Sampled Date	Total Suspended Particulate (mg/m3)	Particulate Matter (PM-10) (mg/m3)	Barometric Pressure (mm Hg)	Atmospheric Temperature (°C)
2223114-22	Mar 28 - Mar 29, 2022	0.027	0.014	758	32
2223114-23	Mar 29 - Mar 30, 2022	0.045	0.023	758	32
2223114-24	Mar 30 - Mar 31, 2022	0.051	0.027	758	32
2223114-25	Mar 31 - Apr 01, 2022	0.057	0.029	758	33
2223114-26	Apr 01 - Apr 02, 2022	0.032	0.013	758	33
2223114-27	Apr 02 - Apr 03, 2022	0.023	0.008	758	32
2223114-28	Apr 03 - Apr 04, 2022	0.028	0.013	758	32
<b>Guideline</b>		0.33	0.12	-	-

### Reference Method

Total Suspended Particulate : US EPA 40 CFR Part 50 Appendix B

Particulate Matter (PM-10) : US EPA 40 CFR Part 50 Appendix J

**Guideline :** Notification of the National Environmental Board. No.24, 2004 (B.E.2547) dated September 22, 2004

**Sampled By :** Satcha Phetsawaeng

Approved by

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# ภาคผนวก ค-2

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คุณภาพอากาศจากปล่องระบาย



## Analysis / Test Report

Client : Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150  
P/O :  
Project Name : Monitoring  
Project Location : CUP 3

Lot ID: 2223138  
Date Received : Mar 30, 2022  
Date Reported : Apr 05, 2022  
Report Number : 2238406-1

Page 1 of 1

Sample Number 2223138-1  
Sample Description Emission from Stationary Source  
Location Auxiliary Boiler 70Ton #1  
Measurement Date Mar 29, 2022

### Stack Description

Ambient Temperature	31 °C	Diameter	1.80 m	Oxygen	3.90 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	10.38 %
Type of Process	Combustion	Stack Temperature	137 °C	Gas Velocity	6.87 m/s
Type of Fuel	Natural Gas	Moisture	16.14 %	Flow Rate	38171 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	10:40 AM - 11:00 AM	3.67	10.52	30.64	24.73	0.27	0.22
2	11:01 AM - 11:21 AM	3.67	10.51	30.60	24.69	0.27	0.22
3	11:22 AM - 11:42 AM	4.36	10.12	30.99	26.04	0.24	0.20
Average (ppm)		3.90	10.38	30.75	25.15	0.26	0.21
Guideline <sup>1/</sup> (ppm)				-	50	-	2
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Guideline <sup>3/</sup> (ppm)				-	120	-	20
Result (mg/m <sup>3</sup> )				57.85	47.32	0.68	0.56
Emission Rate at Actual O <sub>2</sub> (g/s)				0.6133		0.0072	
Guideline <sup>1/</sup> (g/s)				1.56		0.087	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : <sup>1/</sup> Environmental Impact Assessment Report of Global Power Synergy Public Company Limited (CUP 3)

<sup>2/</sup> Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

<sup>3/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont  
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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223221**

Date Received : Mar 30, 2022

Date Reported : Apr 05, 2022

Report Number: 2238442-1

Page 1 of 2

**Sample Number** 2223221-1  
**Sampled Date** Mar 29, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Auxiliary Boiler 70Ton #1  
**Date Analysis Commenced** Mar 31, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	3.9	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	10.4	%
Type of Process	Combustion		Stack Temperature	137	°C	Gas Velocity	6.9	m/s
Type of Fuel	Natural Gas		Moisture	16.10	%	Flow Rate (Actual O2)	38142	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 3.9 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	10:40 AM - 11:28 AM	mg/m3	-	0.5	<0.5	<0.5	60	6	US EPA, Method 5	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223221**

Date Received : Mar 30, 2022

Date Reported : Apr 05, 2022

Report Number: 2238442-1

Page 2 of 2

**Sample Number** 2223221-1  
**Sampled Date** Mar 29, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Auxiliary Boiler 70Ton #1  
**Date Analysis Commenced** Mar 31, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	3.9	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	10.4	%
Type of Process	Combustion		Stack Temperature	137	°C	Gas Velocity	6.9	m/s
Type of Fuel	Natural Gas		Moisture	16.10	%	Flow Rate (Actual O2)	38142	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate *	10:40 AM - 11:28 AM	g/s	-	-	<0.005	-	0.100	Calculated	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

**Sampled By :** Warawut Pubpa , Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

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## Analysis / Test Report

Client : Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150  
P/O :  
Project Name : Monitoring  
Project Location : CUP 3

Lot ID: 2223139  
Date Received : Mar 30, 2022  
Date Reported : Apr 05, 2022  
Report Number : 2238410-1

Page 1 of 1

Sample Number 2223139-1  
Sample Description Emission from Stationary Source  
Location Auxiliary Boiler 70Ton #2  
Measurement Date Mar 30, 2022

### Stack Description

Ambient Temperature	31 °C	Diameter	1.80 m	Oxygen	2.88 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	11.00 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	4.10 m/s
Type of Fuel	Natural Gas	Moisture	17.96 %	Flow Rate	22494 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	10:10 AM - 10:30 AM	2.90	11.00	32.77	25.31	0.23	0.17
2	10:31 AM - 10:51 AM	2.87	11.00	32.21	24.84	0.21	0.16
3	10:52 AM - 11:12 AM	2.85	11.01	32.88	25.32	0.21	0.16
Average (ppm)		2.88	11.00	32.62	25.16	0.21	0.16
Guideline <sup>1/</sup> (ppm)				-	50	-	2
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Guideline <sup>3/</sup> (ppm)				-	120	-	20
Result (mg/m <sup>3</sup> )				61.37	47.33	0.56	0.43
Emission Rate at Actual O <sub>2</sub> (g/s)				0.3835		0.0035	
Guideline <sup>1/</sup> (g/s)				1.56		0.087	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : <sup>1/</sup> Environmental Impact Assessment Report of Global Power Synergy Public Company Limited (CUP 3)

<sup>2/</sup> Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

<sup>3/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223222**

Date Received : Mar 30, 2022

Date Reported : Apr 05, 2022

Report Number: 2238446-1

Page 1 of 2

**Sample Number** 2223222-1  
**Sampled Date** Mar 30, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Auxiliary Boiler 70Ton #2  
**Date Analysis Commenced** Mar 31, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	2.9	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	11.0	%
Type of Process	Combustion		Stack Temperature	133	°C	Gas Velocity	4.1	m/s
Type of Fuel	Natural Gas		Moisture	17.72	%	Flow Rate (Actual O2)	22523	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 2.9 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	10:10 AM - 10:58 AM	mg/m3	-	0.5	<0.5	<0.5	60	6	US EPA, Method 5	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

Technical Management

*Thanita K.*

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Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223222**

Date Received : Mar 30, 2022

Date Reported : Apr 05, 2022

Report Number: 2238446-1

Page 2 of 2

<b>Sample Number</b>	2223222-1
<b>Sampled Date</b>	Mar 30, 2022
<b>Sample Description</b>	Emission from Stationary Source
<b>Location</b>	Auxiliary Boiler 70Ton #2
<b>Date Analysis Commenced</b>	Mar 31, 2022
<b>Condition of Sample</b>	Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	2.9	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	11.0	%
Type of Process	Combustion		Stack Temperature	133	°C	Gas Velocity	4.1	m/s
Type of Fuel	Natural Gas		Moisture	17.72	%	Flow Rate (Actual O2)	22523	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate *	10:10 AM - 10:58 AM	g/s	-	-	<0.003	-	0.100	Calculated	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

**Sampled By :** Warawut Pubpa , Saksit Phaisanphisut

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

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Approved by

*D. Changchon*

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## Analysis / Test Report

Client : Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150  
P/O :  
Project Name : Monitoring  
Project Location : CUP 3

Lot ID: 2223137  
Date Received : Mar 31, 2022  
Date Reported : Apr 05, 2022  
Report Number : 2238393-1

Page 1 of 1

Sample Number 2223137-1  
Sample Description Emission from Stationary Source  
Location Auxiliary Boiler 140  
Measurement Date Mar 31, 2022

### Stack Description

Ambient Temperature	31 °C	Diameter	1.80 m	Oxygen	8.85 %
Ambient Pressure	757 mmHg	Shape	Circle	Carbon dioxide	7.34 %
Type of Process	Combustion	Stack Temperature	133 °C	Gas Velocity	4.08 m/s
Type of Fuel	Natural Gas	Moisture	13.02 %	Flow Rate	23726 Nm3/hr

Run No.	Sampling Time	Oxygen (%)	Carbon Dioxide (%)	Oxides of Nitrogen (ppm)		Sulfur Dioxide (ppm)	
				at Actual O <sub>2</sub>	at 7% O <sub>2</sub>	at Actual O <sub>2</sub>	at 7% O <sub>2</sub>
1	11:00 AM - 11:20 AM	8.87	7.33	31.73	36.68	0.21	0.24
2	11:21 AM - 11:41 AM	8.81	7.35	30.53	35.11	0.19	0.22
3	11:42 AM - 12:02 PM	8.86	7.34	31.70	36.59	0.17	0.20
Average (ppm)		8.85	7.34	31.32	36.13	0.19	0.22
Guideline <sup>1/</sup> (ppm)				-	60	-	2
Guideline <sup>2/</sup> (ppm)				-	120	-	20
Guideline <sup>3/</sup> (ppm)				-	120	-	20
Result (mg/m <sup>3</sup> )				58.93	67.97	0.49	0.57
Emission Rate at Actual O <sub>2</sub> (g/s)				0.3884		0.0033	
Guideline <sup>1/</sup> (g/s)				3.80		0.210	
Method				US EPA Method 7E		US EPA Method 6C	

Sampled By : Saksit Phaisanphisut

Guideline : <sup>1/</sup> Environmental Impact Assessment Report of Global Power Synergy Public Company Limited (CUP 3)

<sup>2/</sup> Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).

<sup>3/</sup> Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Technical Management

Wichan Choonharat  
Manager

ทะเบียนเลขที่ ว-204-ค-6113

Approved by

Sarayuth Jittrantont  
Assistant General Manager

ทะเบียนเลขที่ ว-204-ค-4702

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223220**

Date Received : Mar 31, 2022

Date Reported : Apr 05, 2022

Report Number: 2238437-1

Page 1 of 2

**Sample Number** 2223220-1  
**Sampled Date** Mar 31, 2022  
**Sample Description** Emission from Stationary Source  
**Location** Auxiliary Boiler 140  
**Date Analysis Commenced** Apr 04, 2022  
**Condition of Sample** Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	8.8	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	159	°C	Gas Velocity	4.2	m/s
Type of Fuel	Natural Gas		Moisture	12.90	%	Flow Rate (Actual O2)	22999	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result at 7 %O <sub>2</sub>	Result at 8.8 % O <sub>2</sub>	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>										
Total Suspended Particulate	11:05 AM - 11:53 AM	mg/m3	-	0.5	<0.5	<0.5	60	6	US EPA, Method 5	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223220**

Date Received : Mar 31, 2022

Date Reported : Apr 05, 2022

Report Number: 2238437-1

Page 2 of 2

<b>Sample Number</b>	2223220-1
<b>Sampled Date</b>	Mar 31, 2022
<b>Sample Description</b>	Emission from Stationary Source
<b>Location</b>	Auxiliary Boiler 140
<b>Date Analysis Commenced</b>	Apr 04, 2022
<b>Condition of Sample</b>	Extracted into one filter paper placed in plastic petri dish and one plastic bottle

### Stack Description

Ambient Pressure	757	mmHg	Diameter	1.80	m	Oxygen	8.8	%
Ambient Temperature	31.0	°C	Shape	Circle		Carbon Dioxide	7.3	%
Type of Process	Combustion		Stack Temperature	159	°C	Gas Velocity	4.2	m/s
Type of Fuel	Natural Gas		Moisture	12.90	%	Flow Rate (Actual O2)	22999	Nm3/hr

Analyte	Sampled Time	Unit	LOD	LOQ (LOR)	Result Emission Rate	Guideline (1)	Guideline (2)	Method	Testing Location
<b>Air Testing</b>									
Total Suspended Particulate *	11:05 AM - 11:53 AM	g/s	-	-	<0.003	-	0.241	Calculated	Rayong

### Guideline :

Guideline (1) : Notification of the Ministry of Industry on determining pollutant contents in air emitted from electric power generation, transmission and distribution plant, 2004 (B.E. 2547), dated September, 2004 (B.E. 2547).  
: Notification of the Ministry of Natural Resources and Environment, 2010 (B.E. 2553) on Emission Standard from New Power Plants.

Guideline (2) : Environmental Impact Assessment Report of Global Power Synergy Public Company Limited. (CUP 3)

**Sampled By :** Warawut Pubpa

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

ทะเบียนเลขที่ ว-323-จ-9447

Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

ทะเบียนเลขที่ ว-323-ค-9442

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# ภาคผนวก ค-3

---

คุณภาพอากาศในสถานประกอบการ



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 1 of 7

**Sample Number** 2223249-3  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Cooling Tower #1  
**Date Analysis Commenced** Mar 03, 2022  
**Condition of Sample** Drawn into one amber plastic bottle, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Sararat Mongkonjirawut  
Scientist (4)



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 2 of 7

**Sample Number** 2223249-4  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Cooling Tower #2  
**Date Analysis Commenced** Mar 03, 2022  
**Condition of Sample** Drawn into one amber plastic bottle, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

Remark :

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## Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 3 of 7

**Sample Number** 2223249-5  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** RO Plant  
**Date Analysis Commenced** Mar 03, 2022  
**Condition of Sample** Drawn into one amber plastic bottle, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Chlorine as NaOCl	10:00 AM - 12:00 PM	ppm	-	0.10	<0.10	1(C)	Based on OSHA, ID 101	MOL	Bangkok

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

Remark :

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 4 of 7

**Sample Number** 2223249-6  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Demin Plant Run A (NaOH & HCl Tank)  
**Date Analysis Commenced** Mar 02, 2022  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Hydrogen chloride	10:10 AM - 12:10 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok
Sodium hydroxide as NaOH	10:10 AM - 12:10 PM	mg/m3	-	0.05	0.09	2	NIOSH (1994), 7401	MOL	Rayong

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

Remark :

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Sararat Mongkonjirawut  
Scientist (4)



## Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 5 of 7

**Sample Number** 2223249-7  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Demin Plant Run B (NaOH & HCl Tank)  
**Date Analysis Commenced** Mar 02, 2022  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Hydrogen chloride	10:10 AM - 12:10 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok
Sodium hydroxide as NaOH	10:10 AM - 12:10 PM	mg/m3	-	0.05	0.09	2	NIOSH (1994), 7401	MOL	Rayong

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

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Approved by

Sararat Mongkonjirawut  
Scientist (4)





## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 6 of 7

**Sample Number** 2223249-8  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Demin Plant Run C (NaOH & HCl Tank)  
**Date Analysis Commenced** Mar 02, 2022  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Hydrogen chloride	10:10 AM - 12:10 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok
Sodium hydroxide as NaOH	10:10 AM - 12:10 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Rayong

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

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Sararat Mongkonjirawut  
Scientist (4)



## Analysis / Test Report

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92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223249**

Date Received : Mar 01, 2022

Date Reported : Mar 14, 2022

Report Number : 2238481-1

Page 7 of 7

**Sample Number** 2223249-9  
**Sampled Date** Mar 01, 2022  
**Sample Description** Air Quality  
**Location** Demin Plant Run D (NaOH & HCl Tank)  
**Date Analysis Commenced** Mar 02, 2022  
**Condition of Sample** Drawn into one filter paper placed in plastic cassette and one sorbent tube, refrigerated  
**Barometric Pressure** 760 mmHg  
**Atmospheric Temperature** 30.0 °C

Analyte	Sampled Date/time	Unit	LOD	LOQ (LOR)	Result	Guideline Limit	Method	Guideline	Testing Location
<b>Air Testing</b>									
Hydrogen chloride	10:10 AM - 12:10 PM	ppm	-	0.05	<0.05	5(C)	Based on OSHA, ID-174-SG	MOL	Bangkok
Sodium hydroxide as NaOH	10:10 AM - 12:10 PM	mg/m3	-	0.05	<0.05	2	NIOSH (1994), 7401	MOL	Rayong

**Guideline :**

MOL : Announcement of the Department of Labour Protection and Welfare on Threshold Limit Values of Hazardous Chemical Substances Dated August 3, B.E. 2560 (2017)

**Sampled By :** Jaradrawee Sriruksa

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

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Approved by

Sararat Mongkonjirawut  
Scientist (4)

# ภาคผนวก ค-4

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ระดับเสียงทั่วไป



## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 18, 2022

Report Number: 2364362-1 Rev. No.1

Page 1 of 1

**Sample Number** 2223255-1  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 24 - Jun 25, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	68.8	72.9	68.3
01:00 PM - 02:00 PM	68.6	73.2	68.1
02:00 PM - 03:00 PM	68.5	73.0	67.9
03:00 PM - 04:00 PM	68.3	71.2	67.8
04:00 PM - 05:00 PM	68.5	75.1	67.9
05:00 PM - 06:00 PM	68.3	77.5	67.7
06:00 PM - 07:00 PM	67.9	76.8	66.9
07:00 PM - 08:00 PM	67.6	74.5	67.0
08:00 PM - 09:00 PM	67.6	74.9	67.0
09:00 PM - 10:00 PM	68.1	75.0	67.6
10:00 PM - 11:00 PM	69.1	75.2	68.5
11:00 PM - 12:00 AM	69.6	73.6	69.2
12:00 AM - 01:00 AM	69.8	73.2	69.3
01:00 AM - 02:00 AM	68.9	75.7	68.3
02:00 AM - 03:00 AM	67.2	72.7	66.7
03:00 AM - 04:00 AM	67.3	76.1	66.7
04:00 AM - 05:00 AM	67.2	70.2	66.7
05:00 AM - 06:00 AM	67.5	81.3	66.9
06:00 AM - 07:00 AM	67.5	74.3	66.9
07:00 AM - 08:00 AM	67.1	77.6	66.4
08:00 AM - 09:00 AM	66.6	74.6	65.8
09:00 AM - 10:00 AM	66.5	81.0	65.7
10:00 AM - 11:00 AM	66.3	80.6	65.4
11:00 AM - 12:00 PM	66.5	81.8	65.6

Leq Average 24 hrs. (dB(A)) 68.0  
Lmax (dB(A)) 81.8  
L90 (dB(A)) 67.0  
Ldn (dB(A)) 74.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Note :** This Analysis test report is reissued to supersede report No.2364362-1, Date Reported : Jun 06, 2022 due to revise sample information.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364363-1

Page 1 of 1

**Sample Number** 2223255-2  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 25 - Jun 26, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.6	79.2	65.8
01:00 PM - 02:00 PM	67.0	75.1	66.3
02:00 PM - 03:00 PM	66.8	75.0	66.2
03:00 PM - 04:00 PM	66.8	75.4	66.0
04:00 PM - 05:00 PM	67.3	79.2	66.7
05:00 PM - 06:00 PM	67.8	78.6	67.2
06:00 PM - 07:00 PM	68.2	77.0	67.7
07:00 PM - 08:00 PM	68.2	80.2	67.6
08:00 PM - 09:00 PM	67.9	74.5	67.4
09:00 PM - 10:00 PM	67.5	83.4	67.0
10:00 PM - 11:00 PM	67.4	82.5	66.9
11:00 PM - 12:00 AM	67.4	78.2	66.9
12:00 AM - 01:00 AM	67.2	77.5	66.6
01:00 AM - 02:00 AM	67.1	74.2	66.6
02:00 AM - 03:00 AM	67.1	77.2	66.6
03:00 AM - 04:00 AM	66.9	76.7	66.5
04:00 AM - 05:00 AM	67.3	74.7	66.6
05:00 AM - 06:00 AM	67.1	74.4	66.6
06:00 AM - 07:00 AM	67.0	73.2	66.5
07:00 AM - 08:00 AM	67.1	78.6	66.5
08:00 AM - 09:00 AM	66.8	72.8	66.3
09:00 AM - 10:00 AM	66.8	71.8	66.2
10:00 AM - 11:00 AM	66.9	75.4	66.1
11:00 AM - 12:00 PM	66.7	70.2	65.9

Leq Average 24 hrs. (dB(A)) 67.2  
Lmax (dB(A)) 83.4  
L90 (dB(A)) 66.6  
Ldn (dB(A)) 73.6  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364364-1

Page 1 of 1

**Sample Number** 2223255-3  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 26 - Jun 27, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	67.4	75.1	66.7
01:00 PM - 02:00 PM	67.4	71.1	66.8
02:00 PM - 03:00 PM	67.2	76.4	66.6
03:00 PM - 04:00 PM	67.3	76.6	66.7
04:00 PM - 05:00 PM	67.4	74.5	66.8
05:00 PM - 06:00 PM	67.4	72.1	66.8
06:00 PM - 07:00 PM	67.4	71.3	67.0
07:00 PM - 08:00 PM	67.3	71.6	66.9
08:00 PM - 09:00 PM	67.4	70.7	66.9
09:00 PM - 10:00 PM	67.4	78.5	66.9
10:00 PM - 11:00 PM	67.4	71.4	67.0
11:00 PM - 12:00 AM	67.5	71.1	67.1
12:00 AM - 01:00 AM	67.3	71.0	66.7
01:00 AM - 02:00 AM	67.1	70.7	66.7
02:00 AM - 03:00 AM	67.2	71.3	66.7
03:00 AM - 04:00 AM	67.1	69.7	66.6
04:00 AM - 05:00 AM	67.5	73.4	66.6
05:00 AM - 06:00 AM	67.4	75.8	66.6
06:00 AM - 07:00 AM	67.3	73.9	66.7
07:00 AM - 08:00 AM	67.4	76.3	66.8
08:00 AM - 09:00 AM	67.4	75.2	66.9
09:00 AM - 10:00 AM	67.3	75.3	66.7
10:00 AM - 11:00 AM	67.3	71.5	66.8
11:00 AM - 12:00 PM	66.9	76.9	66.3

Leq Average 24 hrs. (dB(A)) 67.3  
Lmax (dB(A)) 78.5  
L90 (dB(A)) 66.7  
Ldn (dB(A)) 73.7  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364365-1

Page 1 of 1

**Sample Number** 2223255-4  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 27 - Jun 28, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.8	71.7	66.2
01:00 PM - 02:00 PM	66.6	70.8	66.0
02:00 PM - 03:00 PM	67.0	76.5	66.1
03:00 PM - 04:00 PM	66.7	80.0	66.2
04:00 PM - 05:00 PM	66.8	77.5	66.3
05:00 PM - 06:00 PM	67.1	72.3	66.4
06:00 PM - 07:00 PM	67.1	72.6	66.5
07:00 PM - 08:00 PM	67.0	76.7	66.4
08:00 PM - 09:00 PM	67.0	79.7	66.4
09:00 PM - 10:00 PM	67.1	75.9	66.6
10:00 PM - 11:00 PM	66.9	71.4	66.5
11:00 PM - 12:00 AM	66.9	72.6	66.5
12:00 AM - 01:00 AM	67.1	75.0	66.6
01:00 AM - 02:00 AM	67.4	72.8	67.0
02:00 AM - 03:00 AM	67.4	69.7	67.0
03:00 AM - 04:00 AM	67.2	70.2	66.8
04:00 AM - 05:00 AM	67.3	72.4	66.8
05:00 AM - 06:00 AM	67.2	70.5	66.8
06:00 AM - 07:00 AM	67.4	74.4	66.8
07:00 AM - 08:00 AM	67.1	75.1	66.5
08:00 AM - 09:00 AM	67.1	77.8	66.5
09:00 AM - 10:00 AM	66.9	74.5	66.2
10:00 AM - 11:00 AM	66.7	76.3	65.9
11:00 AM - 12:00 PM	66.5	75.4	65.8

Leq Average 24 hrs. (dB(A)) 67.0  
Lmax (dB(A)) 80.0  
L90 (dB(A)) 66.5  
Ldn (dB(A)) 73.6  
Standard (dB(A)) 70 115

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364366-1

Page 1 of 1

**Sample Number** 2223255-5  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 28 - Jun 29, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.5	75.1	65.8
01:00 PM - 02:00 PM	66.4	81.6	65.7
02:00 PM - 03:00 PM	66.3	74.7	65.7
03:00 PM - 04:00 PM	66.3	78.5	65.7
04:00 PM - 05:00 PM	66.7	73.1	66.1
05:00 PM - 06:00 PM	67.1	74.4	66.4
06:00 PM - 07:00 PM	66.9	71.6	66.4
07:00 PM - 08:00 PM	67.1	77.6	66.4
08:00 PM - 09:00 PM	68.0	71.7	67.5
09:00 PM - 10:00 PM	69.5	72.6	69.0
10:00 PM - 11:00 PM	69.3	74.0	68.9
11:00 PM - 12:00 AM	68.2	70.6	67.8
12:00 AM - 01:00 AM	67.4	70.7	66.9
01:00 AM - 02:00 AM	67.3	70.3	66.9
02:00 AM - 03:00 AM	67.3	70.5	66.9
03:00 AM - 04:00 AM	67.2	70.0	66.8
04:00 AM - 05:00 AM	67.4	70.6	67.0
05:00 AM - 06:00 AM	67.4	74.9	66.9
06:00 AM - 07:00 AM	67.4	75.1	66.9
07:00 AM - 08:00 AM	67.1	74.3	66.5
08:00 AM - 09:00 AM	68.4	75.7	67.7
09:00 AM - 10:00 AM	69.0	74.0	68.4
10:00 AM - 11:00 AM	68.7	74.5	68.2
11:00 AM - 12:00 PM	68.6	74.6	68.0

Leq Average 24 hrs. (dB(A)) 67.7  
Lmax (dB(A)) 81.6  
L90 (dB(A)) 66.9  
Ldn (dB(A)) 74.1  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364367-1

Page 1 of 1

**Sample Number** 2223255-6  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 29 - Jun 30, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	68.5	75.7	67.9
01:00 PM - 02:00 PM	68.0	74.6	67.3
02:00 PM - 03:00 PM	67.9	74.8	67.2
03:00 PM - 04:00 PM	67.8	72.8	67.1
04:00 PM - 05:00 PM	68.0	72.0	67.4
05:00 PM - 06:00 PM	69.3	77.1	68.7
06:00 PM - 07:00 PM	69.5	77.6	69.0
07:00 PM - 08:00 PM	69.5	72.7	68.9
08:00 PM - 09:00 PM	68.9	73.3	68.4
09:00 PM - 10:00 PM	67.8	73.7	67.1
10:00 PM - 11:00 PM	67.1	77.8	66.5
11:00 PM - 12:00 AM	67.0	72.0	66.4
12:00 AM - 01:00 AM	67.0	74.3	66.4
01:00 AM - 02:00 AM	67.1	71.9	66.5
02:00 AM - 03:00 AM	66.9	72.1	66.4
03:00 AM - 04:00 AM	66.8	70.6	66.3
04:00 AM - 05:00 AM	66.9	70.9	66.3
05:00 AM - 06:00 AM	67.0	70.2	66.3
06:00 AM - 07:00 AM	67.1	72.7	66.5
07:00 AM - 08:00 AM	67.1	75.9	66.5
08:00 AM - 09:00 AM	66.8	74.8	66.2
09:00 AM - 10:00 AM	66.7	74.2	66.0
10:00 AM - 11:00 AM	66.5	73.1	65.8
11:00 AM - 12:00 PM	66.5	71.4	65.8

Leq Average 24 hrs. (dB(A)) 67.7  
Lmax (dB(A)) 77.8  
L90 (dB(A)) 66.5  
Ldn (dB(A)) 73.6  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223255**

Date Received : Jul 01, 2022

Date Reported : Jul 06, 2022

Report Number: 2364368-1

Page 1 of 1

**Sample Number** 2223255-7  
**Parameter** Noise (Leq 24 hrs.)  
**Location** ริมรั้วโรงงานด้านทิศเหนือฝั่งติดชุมชนหนองแฟบ (GPS 47P 0730544, 1404199)  
**Measurement Date** Jun 30 - Jul 01, 2022  
**Measurement by** Surasak Sachin  
**Sound Level meter** Serial No. 1222723

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
12:00 PM - 01:00 PM	66.3	72.4	65.6
01:00 PM - 02:00 PM	66.3	77.9	65.6
02:00 PM - 03:00 PM	67.0	75.0	66.0
03:00 PM - 04:00 PM	66.7	76.7	65.9
04:00 PM - 05:00 PM	66.6	76.2	65.4
05:00 PM - 06:00 PM	66.2	74.5	65.4
06:00 PM - 07:00 PM	66.0	78.7	64.9
07:00 PM - 08:00 PM	65.3	71.9	64.6
08:00 PM - 09:00 PM	65.3	81.0	64.6
09:00 PM - 10:00 PM	65.8	82.8	64.9
10:00 PM - 11:00 PM	65.3	79.1	64.7
11:00 PM - 12:00 AM	65.1	75.4	64.5
12:00 AM - 01:00 AM	65.2	81.0	64.5
01:00 AM - 02:00 AM	65.5	81.9	64.5
02:00 AM - 03:00 AM	65.2	81.6	64.6
03:00 AM - 04:00 AM	65.2	81.5	64.4
04:00 AM - 05:00 AM	65.3	82.2	64.5
05:00 AM - 06:00 AM	65.3	79.0	64.6
06:00 AM - 07:00 AM	65.5	80.5	64.7
07:00 AM - 08:00 AM	65.3	77.4	64.4
08:00 AM - 09:00 AM	64.7	71.0	64.1
09:00 AM - 10:00 AM	64.7	71.7	64.1
10:00 AM - 11:00 AM	64.5	79.5	63.9
11:00 AM - 12:00 PM	64.5	71.2	63.9

Leq Average 24 hrs. (dB(A)) 65.6  
Lmax (dB(A)) 82.8  
L90 (dB(A)) 64.6  
Ldn (dB(A)) 71.8  
Standard (dB(A)) 70

Reference Method : ISO1996-1 and 1996-2

Standard : 1. ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 15 (พ.ศ. 2540) เรื่องกำหนดมาตรฐานระดับเสียงโดยทั่วไป  
2. ประกาศกระทรวงอุตสาหกรรม เรื่องกำหนดค่าระดับเสียงการรบกวน และระดับเสียงที่เกิดจากการประกอบกิจการโรงงาน พ.ศ. 2548

**Remark :**

- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

*Supot S.*

Supot Salamteh  
Section Head

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# ภาคผนวก ค-5

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ระดับเสียงในสถานประกอบการ



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253784-1

Page 1 of 1

**Sample Number** 2223289-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 140  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:46 AM - 08:46 AM	87.2	87.9	87.0
08:46 AM - 09:46 AM	87.0	88.0	86.5
09:46 AM - 10:46 AM	86.4	87.3	86.0
10:46 AM - 11:46 AM	86.1	87.3	85.4
11:46 AM - 12:46 PM	86.0	87.3	85.1
12:46 PM - 01:46 PM	85.8	87.3	84.9
01:46 PM - 02:46 PM	86.9	90.8	85.8
02:46 PM - 03:46 PM	88.8	92.0	87.8

Leq Average 8 hrs. (dB(A))

86.9

Lmax (dB(A))

92.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**Approved by**

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Supot Salamteh  
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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253785-1

Page 1 of 1

**Sample Number** 2223289-2  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 70Ton #1  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:42 AM - 08:42 AM	86.0	87.0	85.6
08:42 AM - 09:42 AM	86.2	87.4	85.7
09:42 AM - 10:42 AM	87.3	91.1	86.1
10:42 AM - 11:42 AM	87.5	89.3	87.2
11:42 AM - 12:42 PM	87.5	87.9	87.5
12:42 PM - 01:42 PM	87.4	87.9	86.7
01:42 PM - 02:42 PM	86.6	87.0	86.5
02:42 PM - 03:42 PM	86.4	87.0	86.3

Leq Average 8 hrs. (dB(A))

86.9

Lmax (dB(A))

91.1

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253786-1

Page 1 of 1

**Sample Number** 2223289-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 70Ton #2  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:44 AM - 08:44 AM	86.6	87.5	86.2
08:44 AM - 09:44 AM	86.5	87.5	85.9
09:44 AM - 10:44 AM	86.5	87.5	86.0
10:44 AM - 11:44 AM	86.5	95.7	86.0
11:44 AM - 12:44 PM	86.7	87.4	86.4
12:44 PM - 01:44 PM	86.7	87.5	86.4
01:44 PM - 02:44 PM	86.7	87.4	86.4
02:44 PM - 03:44 PM	86.7	87.4	86.4

Leq Average 8 hrs. (dB(A))

86.6

Lmax (dB(A))

95.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253787-1

Page 1 of 1

**Sample Number** 2223289-4  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Cooling Tower #1  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:48 AM - 08:48 AM	77.3	77.9	77.2
08:48 AM - 09:48 AM	77.3	78.2	77.2
09:48 AM - 10:48 AM	77.2	78.3	77.0
10:48 AM - 11:48 AM	79.1	83.3	78.4
11:48 AM - 12:48 PM	77.7	79.1	77.2
12:48 PM - 01:48 PM	77.1	77.7	76.9
01:48 PM - 02:48 PM	77.5	78.6	77.3
02:48 PM - 03:48 PM	78.8	86.5	76.1

Leq Average 8 hrs. (dB(A))

77.8

Lmax (dB(A))

86.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253788-1

Page 1 of 1

**Sample Number** 2223289-5  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Cooling Tower #2  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:50 AM - 08:50 AM	82.3	83.0	82.1
08:50 AM - 09:50 AM	82.0	82.7	81.8
09:50 AM - 10:50 AM	82.1	83.1	81.8
10:50 AM - 11:50 AM	82.3	83.3	81.9
11:50 AM - 12:50 PM	82.0	83.1	81.6
12:50 PM - 01:50 PM	81.7	82.5	81.4
01:50 PM - 02:50 PM	81.9	88.1	81.6
02:50 PM - 03:50 PM	81.9	82.8	81.6

Leq Average 8 hrs. (dB(A))

82.0

Lmax (dB(A))

88.1

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253793-1

Page 1 of 1

**Sample Number** 2223289-10  
**Parameter** Noise (Leq 8 hrs.)  
**Location** STG  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:45 AM - 08:45 AM	81.8	82.7	81.6
08:45 AM - 09:45 AM	81.7	82.3	81.5
09:45 AM - 10:45 AM	81.7	82.6	81.5
10:45 AM - 11:45 AM	81.6	83.5	81.3
11:45 AM - 12:45 PM	81.3	82.1	81.0
12:45 PM - 01:45 PM	81.3	83.3	81.1
01:45 PM - 02:45 PM	82.0	84.1	81.3
02:45 PM - 03:45 PM	82.9	84.7	82.6

Leq Average 8 hrs. (dB(A))

81.8

Lmax (dB(A))

84.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223289**

Date Received : Mar 04, 2022

Date Reported : Mar 09, 2022

Report Number: 2253794-1

Page 1 of 1

**Sample Number** 2223289-11  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Air Compressor  
**Measurement Date** Mar 02, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:39 AM - 08:39 AM	85.8	90.9	80.2
08:39 AM - 09:39 AM	85.4	91.1	77.1
09:39 AM - 10:39 AM	85.8	91.6	79.4
10:39 AM - 11:39 AM	85.8	91.3	77.2
11:39 AM - 12:39 PM	85.2	90.5	77.2
12:39 PM - 01:39 PM	84.9	90.0	79.4
01:39 PM - 02:39 PM	85.3	90.4	78.0
02:39 PM - 03:39 PM	85.8	90.7	80.2

Leq Average 8 hrs. (dB(A))

85.5

Lmax (dB(A))

91.6

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343143-1

Page 1 of 1

**Sample Number** 2269476-1  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 140  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:34 AM - 08:34 AM	82.2	83.3	81.7
08:34 AM - 09:34 AM	81.9	82.8	81.6
09:34 AM - 10:34 AM	82.2	82.9	81.9
10:34 AM - 11:34 AM	82.3	83.0	82.1
11:34 AM - 12:34 PM	82.4	83.5	82.2
12:34 PM - 01:34 PM	82.4	83.1	82.1
01:34 PM - 02:34 PM	82.4	83.1	82.1
02:34 PM - 03:34 PM	82.6	83.3	82.3

Leq Average 8 hrs. (dB(A))

82.3

Lmax (dB(A))

83.5

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343144-1

Page 1 of 1

**Sample Number** 2269476-2  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 70Ton #1  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai MOUNGMA

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:35 AM - 08:35 AM	76.2	79.2	75.8
08:35 AM - 09:35 AM	75.9	78.5	75.5
09:35 AM - 10:35 AM	75.8	80.2	75.3
10:35 AM - 11:35 AM	75.5	77.7	75.2
11:35 AM - 12:35 PM	75.6	77.7	75.3
12:35 PM - 01:35 PM	75.8	78.3	75.4
01:35 PM - 02:35 PM	75.7	77.8	75.4
02:35 PM - 03:35 PM	75.7	78.0	75.4

Leq Average 8 hrs. (dB(A))

75.8

Lmax (dB(A))

80.2

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343145-1

Page 1 of 1

**Sample Number** 2269476-3  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Auxiliary Boiler 70Ton #2  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:31 AM - 08:31 AM	84.1	85.6	83.9
08:31 AM - 09:31 AM	84.1	85.2	83.9
09:31 AM - 10:31 AM	84.0	85.4	83.8
10:31 AM - 11:31 AM	84.0	85.3	83.7
11:31 AM - 12:31 PM	84.2	85.7	84.0
12:31 PM - 01:31 PM	84.2	85.4	84.0
01:31 PM - 02:31 PM	84.2	85.5	84.0
02:31 PM - 03:31 PM	84.2	85.4	84.0

Leq Average 8 hrs. (dB(A))

84.1

Lmax (dB(A))

85.7

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**Technical Management**

*Thanita K.*

Thanita Kulsuriwong  
Scientist (4)

**Approved by**

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Supot Salamteh  
Section Head

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343146-1

Page 1 of 1

**Sample Number** 2269476-4  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Cooling Tower #1  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:33 AM - 08:33 AM	78.2	83.6	78.0
08:33 AM - 09:33 AM	78.2	82.2	78.0
09:33 AM - 10:33 AM	78.2	82.7	77.9
10:33 AM - 11:33 AM	78.0	82.9	77.8
11:33 AM - 12:33 PM	78.0	82.9	77.7
12:33 PM - 01:33 PM	78.0	83.4	77.8
01:33 PM - 02:33 PM	78.1	83.2	77.9
02:33 PM - 03:33 PM	78.2	82.2	78.1

Leq Average 8 hrs. (dB(A))

78.1

Lmax (dB(A))

83.6

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**Technical Management**

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343147-1

Page 1 of 1

**Sample Number** 2269476-5  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Cooling Tower #2  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:30 PM - 08:30 PM	80.9	82.0	80.6
08:30 PM - 09:30 PM	80.9	81.8	80.6
09:30 PM - 10:30 PM	80.9	81.9	80.6
10:30 PM - 11:30 PM	81.0	81.8	80.6
11:30 PM - 12:30 AM	80.9	81.9	80.5
12:30 AM - 01:30 AM	80.9	81.8	80.5
01:30 AM - 02:30 AM	80.9	81.8	80.6
02:30 AM - 03:30 AM	80.9	81.7	80.5

Leq Average 8 hrs. (dB(A))

80.9

Lmax (dB(A))

82.0

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343152-1

Page 1 of 1

**Sample Number** 2269476-10  
**Parameter** Noise (Leq 8 hrs.)  
**Location** STG  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:37 PM - 08:37 PM	85.0	89.6	83.7
08:37 PM - 09:37 PM	84.9	89.5	83.6
09:37 PM - 10:37 PM	84.9	89.4	83.6
10:37 PM - 11:37 PM	84.9	89.3	83.5
11:37 PM - 12:37 AM	84.9	90.2	83.5
12:37 AM - 01:37 AM	84.8	89.5	83.5
01:37 AM - 02:37 AM	84.8	88.9	83.5
02:37 AM - 03:37 AM	84.8	89.3	83.5

Leq Average 8 hrs. (dB(A))

84.9

Lmax (dB(A))

90.2

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
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**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2269476**

Date Received : Jun 09, 2022

Date Reported : Jun 14, 2022

Report Number: 2343153-1

Page 1 of 1

**Sample Number** 2269476-11  
**Parameter** Noise (Leq 8 hrs.)  
**Location** Air Compressor  
**Measurement Date** Jun 08, 2022  
**Measurement by** Ronnachai Mounigma

Time	Leq (dB(A))	Lmax (dB(A))	L90 (dB(A))
07:33 AM - 08:33 AM	85.4	90.3	81.3
08:33 AM - 09:33 AM	85.1	90.1	76.6
09:33 AM - 10:33 AM	85.2	90.0	77.6
10:33 AM - 11:33 AM	85.2	90.3	78.1
11:33 AM - 12:33 PM	84.4	89.9	76.3
12:33 PM - 01:33 PM	84.9	89.9	77.8
01:33 PM - 02:33 PM	85.4	90.1	76.7
02:33 PM - 03:33 PM	85.2	90.0	76.2

Leq Average 8 hrs. (dB(A))

85.1

Lmax (dB(A))

90.3

Standard (dB(A))

90

140

Reference Method : ISO1996-1 and 1996-2

Standard : ประกาศกระทรวงอุตสาหกรรม เรื่อง มาตรการคุ้มครองความปลอดภัย

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**Technical Management**

*Thanita K.*

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# ภาคผนวก ค-6

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คุณภาพน้ำ



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-1

Page 1 of 1

<b>Sample Number</b>	21153230-1
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jan 11, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	16	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	6	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	5	≤600	APHA (2017), 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.3	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	<0.1	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	39.2	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1720	≤3000	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornasawat , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-2

Page 1 of 5

<b>Sample Number</b>	21153230-1
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.17	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	0.0006	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.12	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.005	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Based on APHA (2017), 3125	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.22	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

**Technical Management**

*Savitree N.*

Savitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING

No.0009

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-2

**Client :** Global Power Synergy Public Company Limited

92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

Page 2 of 5

<b>Sample Number</b>	21153230-1
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

**Technical Management**

*Savitree N.*

Savitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-2

Page 3 of 5

<b>Sample Number</b>	21153230-1
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxide	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

**Technical Management**

*Savitree N.*

Savitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-2

Page 4 of 5

<b>Sample Number</b>	21153230-1
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jan 12, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

**Technical Management**

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-2

Page 5 of 5

<b>Sample Number</b>	21153230-1						
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)						
<b>Date Analysis Commenced</b>	Jan 12, 2022						
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Pyrethroid Group</b>							
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornawat , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*Savitree N.*

Savitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 21153230**

Date Received : Jan 11, 2022

Date Reported : Jan 25, 2022

Report Number : 2210032-3

Page 1 of 1

<b>Sample Number</b>	21153230-1						
<b>Sampled Date</b>	Jan 11, 2022 11:40 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)						
<b>Date Analysis Commenced</b>	Jan 12, 2022						
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Iron	mg/L	0.003	0.005	0.15	≤10.0	Based on APHA (2017), 3125	Bangkok
<b>Water Testing</b>							
Ammonia Nitrogen	mg/L	0.02	0.05	0.18	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS	mg/L	0.015	0.05	Not Detected	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	0.4	≤5	APHA (2017), 4500-F(C)	Rayong
Odour		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornawat , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-1

Page 1 of 1

<b>Sample Number</b>	221234-1
<b>Sampled Date</b>	Feb 08, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Feb 08, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	29	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤600	APHA (2017), 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	33.0	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	512	≤3000	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.0	≤100	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	14	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-2

Page 1 of 3

<b>Sample Number</b>	221234-1
<b>Sampled Date</b>	Feb 08, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.007	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.22	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.005	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	0.0009	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.15	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.007	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0005	≤0.02	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.40	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-2

Page 2 of 3

**Sample Number** 221234-1  
**Sampled Date** Feb 08, 2022 2:00 PM  
**Sample Description** Wastewater  
**Location** บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)  
**Date Analysis Commenced** Feb 09, 2022  
**Condition of Sample** Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

*Savitree N.*

Savitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**  
**No.0009**

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-2

Page 3 of 3

**Sample Number** 221234-1  
**Sampled Date** Feb 08, 2022 2:00 PM  
**Sample Description** Wastewater  
**Location** บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)  
**Date Analysis Commenced** Feb 09, 2022  
**Condition of Sample** Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxyde	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-3

Page 1 of 3

<b>Sample Number</b>	221234-1
<b>Sampled Date</b>	Feb 08, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
<sup>[A]</sup> Iron	mg/L	0.003	0.005	0.20	≤10.0	Based on APHA (2017), 3125	Bangkok
<sup>[A]</sup> Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Organochlorine Group</b>							
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

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Approved by

*D. Changchon*

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-3

Page 2 of 3

<b>Sample Number</b>	221234-1
<b>Sampled Date</b>	Feb 08, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

### Water Testing

Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

TESTING  
No.0042

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 221234**

Date Received : Feb 08, 2022

Date Reported : Feb 17, 2022

Report Number : 2236680-3

Page 3 of 3

<b>Sample Number</b>	221234-1
<b>Sampled Date</b>	Feb 08, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Feb 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.73	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.25	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	0.7	≤5	APHA (2017), 4500-F(C)	Rayong
Odour *		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.

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Approved by

Dej Changchon  
Senior Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-1

Page 1 of 1

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 08, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	24	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	12	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	11	≤600	APHA (2017), 2120 F	Rayong
Cyanide as HCN	mg/L	0.001	0.005	Not Detected	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	<0.1	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C	-	-	-	7.9	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.2	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	34.1	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	1000	≤3000	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	2.0	≤100	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	7	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-2

Page 1 of 3

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.007	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.19	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.006	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.11	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Based on APHA (2017), 3125	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.32	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-2

Page 2 of 3

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-2

Page 3 of 3

**Sample Number** 2214770-1  
**Sampled Date** Mar 08, 2022 11:20 AM  
**Sample Description** Wastewater  
**Location** บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)  
**Date Analysis Commenced** Mar 09, 2022  
**Condition of Sample** Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxyde	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Assistant Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-3

Page 1 of 3

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
<sup>[A]</sup> Iron	mg/L	0.003	0.005	0.11	≤10.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Organochlorine Group</b>							
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicofthophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

Approved by

*N. Banongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-3

Page 2 of 3

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

### Water Testing

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2214770**

Date Received : Mar 08, 2022

Date Reported : Mar 16, 2022

Report Number : 2261979-3

Page 3 of 3

<b>Sample Number</b>	2214770-1
<b>Sampled Date</b>	Mar 08, 2022 11:20 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Mar 09, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, ten plastic bottles and two glass vials, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	0.02	0.05	1.50	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.07	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	0.9	≤5	APHA (2017), 4500-F(C)	Rayong
Odour *		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.

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Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 22, 2022

Report Number : 2292612-1

Page 1 of 1

<b>Sample Number</b>	222920-1
<b>Sampled Date</b>	Apr 12, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Apr 12, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	17	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	8	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	APHA (2017), 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.2	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.2	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	41.7	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	424	≤3000	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	<1.0	≤100	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornasawat , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 22, 2022

Report Number : 2292612-2

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

Page 1 of 3

<b>Sample Number</b>	222920-1
<b>Sampled Date</b>	Apr 12, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Apr 18, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.005	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.10	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.08	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.004	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	Not Detected	≤0.02	Based on APHA (2017), 3125	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.33	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

Technical Management

*Chamatt L.*

Chanattagarn Imchom

Supervisor

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 22, 2022

Report Number : 2292612-2

Page 2 of 3

**Sample Number** 222920-1  
**Sampled Date** Apr 12, 2022 2:00 PM  
**Sample Description** Wastewater  
**Location** บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)  
**Date Analysis Commenced** Apr 18, 2022  
**Condition of Sample** Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

*Chamatt L.*

Chanattagarn Imchom

Supervisor

ทะเบียนเลขที่ ว-204-จ-4710

Approved by

*Kanok Korn Anek*

Kanokkorn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 22, 2022

Report Number : 2292612-2

Page 3 of 3

**Sample Number** 222920-1  
**Sampled Date** Apr 12, 2022 2:00 PM  
**Sample Description** Wastewater  
**Location** บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)  
**Date Analysis Commenced** Apr 18, 2022  
**Condition of Sample** Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxyde	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornawat , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*Chanatt L.*

Chanattagarn Imchom

Supervisor

ทะเบียนเลขที่ ว-204-จ-4710

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 23, 2022

Report Number : 2292612-3

Page 1 of 3

<b>Sample Number</b>	222920-1
<b>Sampled Date</b>	Apr 12, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Apr 13, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
<sup>[A]</sup> Iron	mg/L	0.003	0.005	0.05	≤10.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Organochlorine Group</b>							
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicofthophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 23, 2022

Report Number : 2292612-3

Page 2 of 3

<b>Sample Number</b>	222920-1
<b>Sampled Date</b>	Apr 12, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Apr 13, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

### Water Testing

Approved by

*N. Banchongkit*

Narumon Banchongkit  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**  
**No.0042**

**Lot ID: 222920**

Date Received : Apr 12, 2022

Date Reported : Apr 23, 2022

Report Number : 2292612-3

Page 3 of 3

<b>Sample Number</b>	2222920-1
<b>Sampled Date</b>	Apr 12, 2022 2:00 PM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Apr 13, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.67	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.06	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	0.8	≤5	APHA (2017), 4500-F(C)	Rayong
Odour *		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Pathompong Kornawat , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.

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*N. Banchongkit*

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 18, 2022

Report Number : 2316048-1

Page 1 of 1

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 10, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	15	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	9	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	7	≤600	APHA (2017), 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	0.1	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C	-	-	-	7.8	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol *	mg/L	0.005	0.01	<0.01	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	35.9	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	468	≤3000	APHA (2017), 2540 C	Rayong
Total Kjeldahl Nitrogen as N	mg/L	-	1.0	1.4	≤100	APHA (2017), 4500-Norg (C), NH3 (D)	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	<5	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

**Remark :**

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-2

Page 1 of 3

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.003	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.08	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.004	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	Not Detected	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	Not Detected	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.06	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on US EPA, Method 1631 Revision E	Bangkok
Nickel	mg/L	0.0003	0.0005	0.003	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	0.0009	≤0.02	Based on APHA (2017), 3125	Bangkok
Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.59	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-2

Page 2 of 3

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

*Savitree N.*

Savitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-2

Page 3 of 3

<b>Sample Number</b>	2232675-1						
<b>Sampled Date</b>	May 10, 2022 11:15 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)						
<b>Date Analysis Commenced</b>	May 11, 2022						
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						
Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor-Epoxyde	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.

Technical Management

*Sawitree N.*

Sawitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-3

Page 1 of 3

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
<sup>[A]</sup> Iron	mg/L	0.003	0.005	0.08	≤10.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Organochlorine Group</b>							
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicofthophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-3

Page 2 of 3

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

### Water Testing

Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2232675**

Date Received : May 10, 2022

Date Reported : May 19, 2022

Report Number : 2316048-3

Page 3 of 3

<b>Sample Number</b>	2232675-1
<b>Sampled Date</b>	May 10, 2022 11:15 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	May 11, 2022
<b>Condition of Sample</b>	Contained in two glass vials, three amber glass bottles and nine plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	0.02	0.05	1.04	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	<0.05	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	0.9	≤5	APHA (2017), 4500-F(C)	Rayong
Odour *		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Thanasoun Namakunna

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.

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Siriluk Puengpang  
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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-1

Page 1 of 1

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 27, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
BOD (5 days at 20 Degree C)	mg/L	-	2	<2	≤500	APHA (2017), 5210 B	Rayong
COD	mg/L	1.5	5	14	≤750	APHA (2017), 5220 D	Rayong
Color (at Original pH)	ADMI	-	5	16	≤600	APHA (2017), 2120 F	Rayong
Color (at pH 7.0)	ADMI	-	5	15	≤600	APHA (2017), 2120 F	Rayong
Cyanide as CN	mg/L	0.001	0.005	<0.005	≤0.2	Based on APHA (2017), 4500-CN(C), (E)	Rayong
Formaldehyde	mg/L	0.03	0.1	Not Detected	≤1	Wastewater Analysis	Rayong
Oil & Grease	mg/L	-	3	<3	≤10	Based on APHA (2017), 5520 B	Rayong
pH at 25 degree C		-	-	8.4	5.5-9.0	Based on APHA (2017), 4500-H (B)	Rayong
Phenol	mg/L	0.005	0.01	Not Detected	≤1	APHA (2017), 5530 D	Rayong
Residual Free Chlorine *	mg/L	-	0.1	0.1	≤1	Based on APHA (2017), 4500-Cl(F)	Rayong
Sulfide *	mg/L	-	0.5	<0.5	≤1.0	Based on APHA (2017), 4500-S2(C), (F)	Rayong
Temperature *	Degree C	-	-	33.4	≤45	Based on APHA (2017), 2550 B	Rayong
Total Dissolved Solids Dried at 180 degree C	mg/L	-	5	644	≤3000	APHA (2017), 2540 C	Rayong
Total Suspended Solids Dried at 103-105 degree C	mg/L	-	5	10	≤200	APHA (2017), 2540 D	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*N. Banchongkit*

Narumon Banchongkit

Supervisor

ทะเบียนเลขที่ จ-323-จ-9445

**Approved by**

*D. Changchon*

Dej Changchon

Senior Manager

ทะเบียนเลขที่ จ-323-ค-9442

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-2

Page 1 of 3

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 28, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
Arsenic	mg/L	0.0003	0.0005	0.009	≤0.25	Based on APHA (2017), 3125	Bangkok
Barium	mg/L	0.0003	0.0005	0.18	≤1.0	Based on APHA (2017), 3125	Bangkok
Cadmium	mg/L	0.0003	0.0005	Not Detected	≤0.03	Based on APHA (2017), 3125	Bangkok
Copper	mg/L	0.0003	0.0005	0.003	≤2.0	Based on APHA (2017), 3125	Bangkok
Hexavalent Chromium	mg/L	0.003	0.01	<0.01	≤0.25	Based on APHA (2017), 3500-Cr (B)	Bangkok
Lead	mg/L	0.0003	0.0005	<0.0005	≤0.2	Based on APHA (2017), 3125	Bangkok
Manganese	mg/L	0.0003	0.0005	0.27	≤5.0	Based on APHA (2017), 3125	Bangkok
Mercury *	mg/L	0.0001	0.0005	Not Detected	≤0.005	Based on APHA (2017), 3112	Bangkok
Nickel	mg/L	0.0003	0.0005	0.008	≤1.0	Based on APHA (2017), 3125	Bangkok
Selenium	mg/L	0.0003	0.0005	<0.0005	≤0.02	Based on APHA (2017), 3125	Bangkok
Trivalent Chromium *	mg/L	-	0.01	<0.01	≤0.75	Based on APHA (2017), Calculated	Bangkok
Zinc	mg/L	0.003	0.005	0.46	≤5.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Carbamate Group</b>							
3-Hydroxy Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfone *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Aldicarb Sulfoxide *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbaryl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Carbofuran *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methiocarb *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Methomyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanok Korn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

TESTING  
No.0009

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-2

Page 2 of 3

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 28, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Carbamate Group</b>							
Oxamyl *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
Propoxur *	ug/L	0.15	0.5	Not Detected	Not Detected	Based on APHA (2017), 6610 B	Bangkok
<b>Pesticides - Organochlorine Group</b>							
2,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
2,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDD	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDE	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
4,4-DDT	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Aldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
alpha-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
beta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Chlordane	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
delta-BHC	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Dieldrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan I	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan II	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endosulfan Sulfate	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Endrin	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
gamma-BHC (Lindane)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok

Technical Management

*Sawitree N.*

Sawitree Noisangiam  
Manager

ทะเบียนเลขที่ ว-204-จ-4709

Approved by

*Kanok Korn Anek*

Kanokkorn Anek  
Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0009**

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-2

Page 3 of 3

<b>Sample Number</b>	2278891-1						
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM						
<b>Sample Description</b>	Wastewater						
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)						
<b>Date Analysis Commenced</b>	Jun 28, 2022						
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)						

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organochlorine Group</b>							
Heptachlor-Epoxide	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Lindane (gamma-BHC)	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Methoxychlor	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Water Testing</b>							
Total Kjeldahl Nitrogen as N *	mg/L	0.15	1.0	1.7	≤100	Based on APHA (2017), 4500-Norg (C)	Bangkok

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Panupong Manit

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

**Technical Management**

*Sawitree N.*

Sawitree Noisangiam

Manager

ทะเบียนเลขที่ ว-204-จ-4709

**Approved by**

*Kanok Korn Anek*

Kanok Korn Anek

Senior Manager

ทะเบียนเลขที่ ว-204-ค-6111

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-3

Page 1 of 3

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 28, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Metals Testing</b>							
<sup>[A]</sup> Iron	mg/L	0.003	0.005	0.08	≤10.0	Based on APHA (2017), 3125	Bangkok
<sup>[A]</sup> Silver	mg/L	0.0003	0.0005	Not Detected	≤1.0	Based on APHA (2017), 3125	Bangkok
<b>Pesticides - Organochlorine Group</b>							
Aldrin and Dieldrin *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
DDT *	ug/L	0.001	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Heptachlor and Heptachlor epoxide *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
Mirex *	ug/L	0.001	0.02	Not Detected	Not Detected	Based on APHA (2017), 6630 C	Bangkok
<b>Pesticides - Organophosphate Group</b>							
Azinphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Chlorpyrifos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
DDVP *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Diazinon *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dicrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Dimethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
EPN *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Ethion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Fenitrothion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Malathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Methamidophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok

Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-3

Page 2 of 3

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 28, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Pesticides - Organophosphate Group</b>							
Methidathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Mevinphos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Monocrotophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Omethoate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Parathion-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Phosalone *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-ethyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Pirimiphos-methyl *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Profenofos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Prothiophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
Triazophos *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on US EPA, Method 3510 C and 8141 A	Bangkok
<b>Pesticides - Pyrethroid Group</b>							
Cypermethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Deltamethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Fenvalerate *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok
Permethrin *	ug/L	0.03	0.1	Not Detected	Not Detected	Based on APHA (2017), 6630 D and 6410 B	Bangkok

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand 21150

**P/O :**

**Project Name :** Monitoring

**Project Location:** CUP 3

**TESTING**

**No.0042**

**Lot ID: 2278891**

Date Received : Jun 27, 2022

Date Reported : Jul 05, 2022

Report Number : 2356386-3

Page 3 of 3

<b>Sample Number</b>	2278891-1
<b>Sampled Date</b>	Jun 27, 2022 11:00 AM
<b>Sample Description</b>	Wastewater
<b>Location</b>	บ่อตรวจสอบคุณภาพน้ำทิ้ง (Inspection Manhole)
<b>Date Analysis Commenced</b>	Jun 28, 2022
<b>Condition of Sample</b>	Contained in three amber glass bottles, two glass vials and ten plastic bottles, sample containers comply to pretreatment - preservation standards (APHA, USEPA)

Analyte	Unit	LOD	LOQ (LOR)	Result	Guideline / Specification	Method	Testing Location
<b>Water Testing</b>							
Ammonia Nitrogen *	mg/L	0.02	0.05	0.57	No Standard	Based on APHA (2017), 4500-NH <sub>3</sub> F	Rayong
Anionic Surfactant as MBAS *	mg/L	0.015	0.05	0.15	≤30	Based on APHA (2017), 5540 (B),(C)	Bangkok
Fluoride	mg/L	0.05	0.2	1.5	≤5	APHA (2017), 4500-F(C)	Rayong
Odour *		-	-	Odourless	Non Objectionable	TIS, 257-2549	Rayong

**Guideline :** Notification of the Industrial Estate Authority of Thailand No.76, B.E. 2560 : Criteria of wastewater characteristic from factory discharge to central wastewater Treatment Plant

**Sampled By :** Chainusorn Lertnanthakunchai , Panupong Mani

Remark :

- LOD : Limit of Detection
- "<" : Lower than LOQ (Limit of Quantitation) / LOR (Limit of Reporting)
- Analyte(s) marked \* is/are not included in scope of Accreditation ISO/IEC 17025.
- [A] Analysis conducted by ALS Laboratory Group (Thailand) Co.,Ltd. Bangkok Branch, DSS Accreditation No. 0009.
- The laboratory has been accepted as an accredited laboratory complying with the ISO/IEC 17025.

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Approved by

Siriluk P.

Siriluk Puengpang  
Supervisor

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# ภาคผนวก ค-7

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ความร้อนในสถานประกอบการ



## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand  
21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223302**

Date Received : Mar 04, 2022

Date Reported : Mar 08, 2022

Report Number: 2238659-1

Page 1 of 4

**Sample Number** 2223302-1  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Mar 03, 2022  
**Measurement by** Supot Salamteh  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Aux Boiler 140 Ton	120	29.7	27.7	34.7	34.1
Average (WBGT)		29.7			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

**Guideline:**

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

**Technical Management**

  
Supot Salamteh  
Section Head

**Approved by**

  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand  
21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223302**

Date Received : Mar 04, 2022

Date Reported : Mar 08, 2022

Report Number: 2238659-1

Page 2 of 4

**Sample Number** 2223302-2  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Mar 03, 2022  
**Measurement by** Supot Salamteh  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Aux Boiler 70 Ton #1	120	29.7	27.8	34.3	33.8
Average (WBGT)		29.7			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

**Guideline:**

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

**Technical Management**

  
Supot Salamteh  
Section Head

**Approved by**

  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand  
21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223302**

Date Received : Mar 04, 2022

Date Reported : Mar 08, 2022

Report Number: 2238659-1

Page 3 of 4

**Sample Number** 2223302-3  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Mar 03, 2022  
**Measurement by** Supot Salamteh  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
Aux Boiler 70 Ton #2	120	29.2	27.6	33.2	32.7
Average (WBGT)		29.2			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

**Guideline:**

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
2. Ministerial Regulation on Prescribing of Standard for Administration and Management of Occupational Safety, Health and Environment in relation to Heat, Light and Noise, B.E.2559

**Technical Management**

  
Supot Salamteh  
Section Head

**Approved by**

  
Wichan Choonharat  
Assistant Manager

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## Analysis / Test Report

**Client :** Global Power Synergy Public Company Limited  
92/9, Rayong Highway Road 3191, Map Ta Phut, Mueang, Rayong Thailand  
21150

**P/O :**

**Project Name :** Monitoring

**Project Location :** CUP 3

**Lot ID: 2223302**

Date Received : Mar 04, 2022

Date Reported : Mar 08, 2022

Report Number: 2238659-1

Page 4 of 4

**Sample Number** 2223302-8  
**Parameter** Heat Stress (Sampling Time : 10.00 AM - 12.00 PM)  
**Measurement Date** Mar 03, 2022  
**Measurement by** Supot Salamteh  
**Location** ปฏิบัติงาน 1 พื้นที่ (ชื่อ-นามสกุล ผู้ปฏิบัติงาน : - แผนก : - )

Location	Duration (min)	WBGT (°C)	NWB (°C)	GT (°C)	DB (°C)
STG	120	28.3	27.2	30.8	30.7
Average (WBGT)		28.3			
Guideline WBGT (°C)		34.0			

**Reference Method :** Wet Bulb Globe Temperature

**Guideline:**

1. Notification of Department Labour Protection and Welfare on the Criteria and Procedures for Measurement and Analysis of Working Conditions in relation to Heat, Light or Noise Levels, including Duration and Types of Business that must perform (B.E. 2561)
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**Technical Management**

  
Supot Salamteh  
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Wichan Choonharat  
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